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Closed Topic Search

Published on SBIR.gov (<https://www.sbir.gov>)

[1. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated "system on chip" (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

SBIR Defense Threat Reduction Agency Department of Defense

[2. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The Defense Threat Reduction Agency's Basic Research Program, Thrust Area 4 - Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

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[3. DTRA152-003: High Performance Computing \(HPC\) Application Performance Prediction & Profiling Tools](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

DTRA uses High Fidelity computer codes to investigate weapon effects phenomenology and techniques for countering WMD. End to end High Fidelity simulations in support of the DTRA Agent Defeat Warfighter Capability will require calculations including multiple phenomena that occur in vastly different time scales (μ s to hours). The resulting code run times will be prohibitively long without optimizat ...

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[4. DTRA152-004: Instrumentation for Characterization of Fireballs, Hot Gases, & Aerosols from Defeat of Targets Containing Biological and Chemical Agents](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Testing of methods to defeat chemical and biological agents often requires scaled experiments involving rapid combustion of bio- and chemical- agent simulants. This effort will focus on the development of next-generation instrumentation for effective characterization of physical and chemical processes occurring during rapid combustion in the expanding fireball, to provide quantitative and qualitat ...

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5. [DTRA152-005: Joint Learning of Text-based Categories](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

J9CXQ has the challenge of identifying and extracting evidential information from a complex and ambiguous text. An automated extraction system is being developed that will detect and characterize categories of entities, relations, events, and topics. The extracted information will be stored in a knowledge base that will enable automatically finding patterns and searching for critical information. ...

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6. [DTRA152-006: Island-mode Enhancement Strategies and Methodologies for Defense Critical Infrastructure](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The defense critical infrastructure (DCI) is the composite of DoD and non-DoD assets essential to project, support, and sustain military forces and operations worldwide. The DCI includes, but is not limited to, elements such as military bases, ballistic missile defense installations, radar sites, etc. An electromagnetic (EM) attack (nuclear electromagnetic pulse [EMP] or non-nuclear EMP [e.g., hig ...

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7. [DTRA152-007: Multi-mode Handheld Radioisotope Identification Instrument](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

DTRA is seeking development of handheld radioisotope identification instrumentation with extended capabilities for identifying and categorizing isotopic sources. Passive measurements of gamma-ray signatures can be adversely compromised by shielding around the source. Neutrons are an additional signature that may either substantiate a finding or, more importantly, elucidate an anomaly that may aris ...

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8. [DTRA152-008: Standoff Detection of Highly Enriched Uranium](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Within the Federal and State governments there are several select agencies whose mission is to detect the presence of highly enriched uranium without revealing the search activity or the means of detection. The most challenging task is detection from an undisclosed survey vehicle moving at no more than typical urban speeds. The commercial applications for this product would be fall out for DOD req ...

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9. [8.1: Resilient Coastal Communities and Economies](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date:
01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Developing and Improving Commercial Marine Algal Culture in the United States Automated Vertical Reference Rapid Identification of Species and Origin in Processed Seafood 8.1 DOC DOC/NOAA SBIR NOAA-2014-1 ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

10. [8.1.1F: Developing and Improving Commercial Marine Algal Culture in the United States](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date:
01-29-2014

Summary: We stand at a critical juncture in the development of marine aquaculture in the United States. The U.S. is a major consumer of aquaculture products – we import 91% of our seafood and half of that is from aquaculture – yet we are a minor producer. Algal products have a huge market worldwide, use energy from the sun, and can uptake excess nutrients, improving local water quality ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

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